

# **Arizona Electric EDI Standards**

## **UDC Bill Data For ESP Consolidated Billing**

**VERSION: ANSI X12 810 Draft Standard Ver/Rel 4010  
DRAFT**

**Author: Arizona Process Standards Work Group**  
**Modified: September 20, 2000 1:20PM**

**810****Invoice****Functional Group=IN**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

**Notes:**

3/070 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

**General: Mandatory usage items inside detail and summary loops below imply that they are mandatory if the loop is present.**

**Heading:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Mandatory
020	BIG	Beginning Segment for Invoice	M	1			Mandatory
030	NTE	Note/Special Instruction (customer or rate level messages)	O	100			Conditional
050	REF	Reference Identification (ESP assigned acct #)	O	12			Mandatory
050	REF	Reference Identification (UDC assigned acct #)	O	12			Mandatory

**LOOP ID - N1****200**

070	N1	Name (UDC)	O	1			Mandatory
070	N1	Name (ESP)	O	1			Mandatory
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Mandatory
140	DTM	Date/Time Reference (Invoice period)	O	10			Mandatory

**Detail:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
------------	-----------	---------------------	------------	----------------	---------------	--------------	--------------

**LOOP ID - IT1 (METERED)****200000**

010	IT1	Baseline Item Data (Metered)	O	1			Mandatory
040	TXI	Tax Information (Meter level taxes)	O	10			Conditional
059	MEA	Measurements (Multiplier)	O	40			Mandatory
059	MEA	Measurements (Kilowatt hours)	O	40			Mandatory
059	MEA	Measurements (Demand KW)	O	40			Conditional
060	PID	Product/Item Description	O	1			Conditional
120	REF	Reference Identification (UNI/SDP)	O	>1			Mandatory
120	REF	Reference Identification (Meter number)	O	>1			Mandatory
120	REF	Reference Identification (Utility rate)	O	>1			Mandatory
120	REF	Reference Identification (Cycle Number)	O	>1			Optional
150	DTM	Date/Time Reference	O	10			Conditional

**LOOP ID - SLN****1000**

200	SLN	Subline Item Detail	O	1			Mandatory
230	SAC	Service, Promotion, Allowance, or Charge Information (Meter level charges)	O	25			Mandatory

Attachment No. 4 - Consolidated Billing Subcommittee

09/21/00

Invoice - 810

<b>LOOP ID - N1</b>				<b>200</b>	
240	N1	Name (Customer)	O	1	Mandatory
260	N3	Address Information (Service address)	O	2	Mandatory
270	N4	Geographic Location	O	1	Optional

<b>LOOP ID - IT1 (UNMET)</b>				<b>200000</b>	
010	IT1	Baseline Item Data (Invoice)	O	1	Mandatory
040	TXI	Tax Information (Unmetered level taxes)	O	10	Conditional
059	MEA	Measurements (Count of unmetered devices)	O	40	Mandatory
060	PID	Product/Item Description	O	1	Conditional
120	REF	Reference Identification (Utility rate)	O	>1	Mandatory
120	REF	Reference Identification (Cycle Number)	O	>1	Optional
150	DTM	Date/Time Reference (Service period)	O	10	Conditional

<b>LOOP ID - SLN</b>				<b>1000</b>	
200	SLN	Subline Item Detail	O	1	Mandatory
230	SAC	Service, Promotion, Allowance, or Charge Information	O	25	Mandatory

<b>LOOP ID - N1</b>				<b>200</b>	
240	N1	Name (Customer)	O	1	Mandatory
260	N3	Address Information (Service address)	O	2	Mandatory
270	N4	Geographic Location	O	1	Optional

<b>LOOP ID - IT1 (ACCOUNT)</b>				<b>200000</b>	
010	IT1	Baseline Item Data (Account)	O	1	Mandatory
040	TXI	Tax Information (Account level taxes)	O	10	Conditional
060	PID	Product/Item Description	O	1	Conditional
120	REF	Reference Identification (Days in period)	O	>1	Mandatory
120	REF	Reference Identification (Cycle Number)	O	>1	Optional
150	DTM	Date/Time Reference (Service period)	O	10	Conditional

<b>LOOP ID - SLN</b>				<b>1000</b>	
200	SLN	Subline Item Detail	O	1	Mandatory
230	SAC	Service, Promotion, Allowance, or Charge Information (Meter level charges)	O	25	Mandatory

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Mandatory
070	CTT	Transaction Totals	O	1		N3/070	Recommended
080	SE	Transaction Set Trailer	M	1			Mandatory

**ST****Transaction Set Header**

<b>Pos: 010</b>	<b>Max: 1</b>
<b>Heading - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

To indicate the start of a transaction set and to assign a control number

**Semantics:**

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

**Notes:***Required**ST~810~0001***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set	M	ID	3/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>810</td> <td>Invoice</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	810	Invoice				
<u>Code</u>	<u>Name</u>									
810	Invoice									
ST02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Mandatory				

# BIG Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

### Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

### Comments:

1. BIG07 is used only to further define the type of invoice when needed.

### Notes:

*Required*

*BIG~19990201~19990201123500001~~~~~PR~00*

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
BIG01	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD <b>Notes:</b> <i>Document creation date</i>	M	DT	8/8	Mandatory										
BIG02	76	<b>Invoice Number</b> <b>Description:</b> Identifying number assigned by issuer <b>Notes:</b> <i>Unique document identifier by sender, such as invoice number.</i>	M	AN	1/22	Mandatory										
BIG07	640	<b>Transaction Type Code</b> <b>Description:</b> Code specifying the type of transaction	O	ID	2/2	Mandatory										
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>FB</td> <td>Final Bill</td> </tr> <tr> <td colspan="2"><b>Notes:</b> <i>Final bill ready items from the non-billing party.</i></td> </tr> <tr> <td>PR</td> <td>Product (or Service)</td> </tr> <tr> <td colspan="2"><b>Notes:</b> <i>Regular service period bill items from the non-billing party.</i></td> </tr> </table>	<u>Code</u>	<u>Name</u>	FB	Final Bill	<b>Notes:</b> <i>Final bill ready items from the non-billing party.</i>		PR	Product (or Service)	<b>Notes:</b> <i>Regular service period bill items from the non-billing party.</i>					
<u>Code</u>	<u>Name</u>															
FB	Final Bill															
<b>Notes:</b> <i>Final bill ready items from the non-billing party.</i>																
PR	Product (or Service)															
<b>Notes:</b> <i>Regular service period bill items from the non-billing party.</i>																
BIG08	353	<b>Transaction Set Purpose Code</b> <b>Description:</b> Code identifying purpose of transaction set	O	ID	2/2	Mandatory										
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>00</td> <td>Original</td> </tr> <tr> <td>CO</td> <td>Corrected</td> </tr> <tr> <td colspan="2"><b>Notes:</b> <i>Used to send rebill items from non-billing party.</i></td> </tr> </table>	<u>Code</u>	<u>Name</u>	00	Original	CO	Corrected	<b>Notes:</b> <i>Used to send rebill items from non-billing party.</i>							
<u>Code</u>	<u>Name</u>															
00	Original															
CO	Corrected															
<b>Notes:</b> <i>Used to send rebill items from non-billing party.</i>																

**NTE****Note/Special Instruction (Customer or rate level messages)**

<b>Pos: 030</b>	<b>Max: 100</b>
<b>Heading - Optional</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

To transmit information in a free-form format, if necessary, for comment or special instruction

**Comments:**

- The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

**Notes:**

*Conditional.*

*Used to explain or clarify billing charges from non-billing party. Recommend using non EDI method to deliver repetitive messages.*

*NTE~ADD~ADJUSTMENTS DUE TO POWER FACTOR CHANGE*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
NTE01	363	<b>Note Reference Code</b> <b>Description:</b> Code identifying the functional area or purpose for which the note applies	O	ID	3/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>ADD</td> <td>Additional Information</td> </tr> </tbody> </table> <p><b>Notes:</b> <i>Non-billing party messages. These are for special bill messages, and exclude repetitive and/or regulatory messages.</i></p>	<u>Code</u>	<u>Name</u>	ADD	Additional Information				
<u>Code</u>	<u>Name</u>									
ADD	Additional Information									
NTE02	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	M	AN	1/80	Mandatory				
		<b>Notes:</b> <i>Message text</i>								

**REF****Reference Identification (ESP assigned customer account number)**

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

To specify identifying information

**Syntax:**

R0203 -- At least one of REF02 or REF03 is required.

**Semantics:**

1. REF04 contains data relating to the value cited in REF02.

**Notes:***Required**REF~11~935668322***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>Notes:</b> <i>Energy Service Provider assigned account number for the end customer</i>	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>11</td> <td>Account Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	11	Account Number				
<u>Code</u>	<u>Name</u>									
11	Account Number									
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <b>Notes:</b> <i>Account number</i>	C	AN	1/30	Mandatory				

**REF****Reference Identification (UDC assigned customer account number)**

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

To specify identifying information

**Syntax:**

R0203 -- At least one of REF02 or REF03 is required.

**Semantics:**

1. REF04 contains data relating to the value cited in REF02.

**Notes:***Required**REF~12~123456789***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>Notes:</b> <i>Utility(UDC) assigned account number for the end customer</i>	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>12</td> <td>Billing Account</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	12	Billing Account				
<u>Code</u>	<u>Name</u>									
12	Billing Account									
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <b>Notes:</b> <i>Account number</i>	C	AN	1/30	Mandatory				

**N1****Name (UDC identification)**

<b>Pos: 070</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 5</b>

To identify a party by type of organization, name, and code

**Syntax:**

R0203 -- At least one of N102 or N103 is required.

P0304 -- If either N103 or N104 are present, then the others are required.

**Comments:**

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

**Notes:**

*Required*

*N1~8S~UTILITY COMPANY~1~123456789~~41*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Mandatory						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>8S</td> <td>Consumer Service Provider (CSP)</td> </tr> </tbody> </table> <p><b>Notes:</b> <i>Utility</i></p>	<u>Code</u>	<u>Name</u>	8S	Consumer Service Provider (CSP)						
<u>Code</u>	<u>Name</u>											
8S	Consumer Service Provider (CSP)											
N102	93	<b>Name</b> <b>Description:</b> Free-form name	C	AN	1/60	Conditional						
		<b>Notes:</b> <i>Entity name</i>										
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Conditional						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>D-U-N-S Number, Dun &amp; Bradstreet</td> </tr> <tr> <td>9</td> <td>D-U-N-S+4, D-U-N-S Number with Four Character Suffix</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number, Dun & Bradstreet	9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix				
<u>Code</u>	<u>Name</u>											
1	D-U-N-S Number, Dun & Bradstreet											
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix											
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	C	AN	2/80	Conditional						
N106	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	O	ID	2/3	Mandatory						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> </table>	<u>Code</u>	<u>Name</u>								
<u>Code</u>	<u>Name</u>											

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	41	Submitter				

# N1 Name (ESP identification)

Pos: 070	Max: 1
Heading - Optional	
Loop: N1	Elements: 5

To identify a party by type of organization, name, and code

## Syntax:

R0203 -- At least one of N102 or N103 is required.

P0304 -- If either N103 or N104 are present, then the others are required.

## Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

## Notes:

*Required*

*N1~SJ~ENERGY SERVICE PROVIDER~1~123456789~~40*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Mandatory						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SJ</td> <td>Service Provider</td> </tr> </tbody> </table> <p><b>Notes:</b> <i>Energy Service Provider</i></p>	<u>Code</u>	<u>Name</u>	SJ	Service Provider						
<u>Code</u>	<u>Name</u>											
SJ	Service Provider											
N102	93	<b>Name</b> <b>Description:</b> Free-form name	C	AN	1/60	Conditional						
		<b>Notes:</b> <i>Entity name</i>										
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Conditional						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>D-U-N-S Number, Dun &amp; Bradstreet</td> </tr> <tr> <td>9</td> <td>D-U-N-S+4, D-U-N-S Number with Four Character Suffix</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number, Dun & Bradstreet	9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix				
<u>Code</u>	<u>Name</u>											
1	D-U-N-S Number, Dun & Bradstreet											
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix											
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	C	AN	2/80	Conditional						
N106	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	O	ID	2/3	Mandatory						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>40</td> <td>Receiver</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	40	Receiver						
<u>Code</u>	<u>Name</u>											
40	Receiver											

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

**ITD****Terms of Sale/Deferred Terms of Sale  
(Payment due date)**

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 1

To specify terms of sale

**Syntax:**

1. ITD03 L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. ITD08 L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. ITD09 L091011 -- If ITD09 is present, then at least one of ITD10 or ITD11 is required.

**Semantics:**

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

**Comments:**

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

**Notes:***Required**ITD~~~~~20000601***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD06	446	<b>Terms Net Due Date</b>	O	DT	8/8	Mandatory
		<b>Description:</b> Date when total invoice amount becomes due expressed in format CCYYMMDD				

**Notes:** *Payment due date*

# DTM Date/Time Reference (Billing period)

Pos: 140	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

To specify pertinent dates and times

## Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

## Notes:

*Required, reflects current billing period only*

*DTM~186~20000315*

*DTM~187~20000414*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	<b>Date/Time Qualifier</b>	M	ID	3/3	Mandatory
		<b>Description:</b> Code specifying type of date or time, or both date and time				
		<u>Code</u>		<u>Name</u>		
		186		Invoice Period Start		
		187		Invoice Period End		
DTM02	373	<b>Date</b>	C	DT	8/8	Mandatory
		<b>Description:</b> Date expressed as CCYYMMDD				

**IT1****Baseline Item Data (Metered)**

<b>Pos: 010</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: IT1</b>	<b>Elements: 5</b>

To specify the basic and most frequently used line item data for the invoice and related transactions

**Syntax:**

P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.  
P0607 -- If either IT106 or IT107 are present, then the others are required.  
P0809 -- If either IT108 or IT109 are present, then the others are required.  
P1011 -- If either IT110 or IT111 are present, then the others are required.  
P1213 -- If either IT112 or IT113 are present, then the others are required.  
P1415 -- If either IT114 or IT115 are present, then the others are required.  
P1617 -- If either IT116 or IT117 are present, then the others are required.  
P1819 -- If either IT118 or IT119 are present, then the others are required.  
P2021 -- If either IT120 or IT121 are present, then the others are required.  
P2223 -- If either IT122 or IT123 are present, then the others are required.  
P2425 -- If either IT124 or IT125 are present, then the others are required.

**Semantics:**

- IT101 is the purchase order line item identification.

**Comments:**

- Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:***Required**IT1~1~~~~SV~EL~C3~METER***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT101	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set <b>Notes:</b> <i>Line item counter within IT1 loop</i>	O	AN	1/20	Recommended				
IT106	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SV</td> <td>Service Rendered</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	SV	Service Rendered	C	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>									
SV	Service Rendered									
IT107	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service <b>Notes:</b> <i>Commodity</i> <i>EL Electric Service</i>	C	AN	1/48	Mandatory				

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT108	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>C3</td> <td>Classification</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	C3	Classification				
<u>Code</u>	<u>Name</u>									
C3	Classification									
IT109	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service <b>Notes:</b> <i>Line item billing levels</i> <i>METER for meter level charges</i>	C	AN	1/48	Mandatory				

**TXI****Tax Information (Meter level taxes)**

Pos: 040	Max: 10
Detail - Optional	
Loop: IT1	Elements: 6

To specify tax information

**Syntax:**

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required

**Semantics:**

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

**Notes:***Required if taxes exist and are billed at IT1 levels(Meter)**TXI~ZZ~4.55~CD~ABC~A~~5**TXI~LS~8.10***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
TXI01	963	<b>Tax Type Code</b> Description: Code specifying the type of tax	M	ID	2/2	Mandatory												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CP</td> <td>County/Parish Sales Tax</td> </tr> <tr> <td>CS</td> <td>City Sales Tax</td> </tr> <tr> <td>LS</td> <td>State and Local Sales Tax</td> </tr> <tr> <td>ST</td> <td>State Sales Tax</td> </tr> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CP	County/Parish Sales Tax	CS	City Sales Tax	LS	State and Local Sales Tax	ST	State Sales Tax	ZZ	Mutually Defined				
<u>Code</u>	<u>Name</u>																	
CP	County/Parish Sales Tax																	
CS	City Sales Tax																	
LS	State and Local Sales Tax																	
ST	State Sales Tax																	
ZZ	Mutually Defined																	
TXI02	782	<b>Monetary Amount</b> Description: Monetary amount	C	R	1/18	Mandatory												
TXI04	955	<b>Tax Jurisdiction Code Qualifier</b> Description: Code identifying the source of the data used in tax jurisdiction code	C	ID	2/2	Conditional												
		<b>Notes:</b> Required if TXI01 = ZZ																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CD</td> <td>Customer defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CD	Customer defined												
<u>Code</u>	<u>Name</u>																	
CD	Customer defined																	
TXI05	956	<b>Tax Jurisdiction Code</b> Description: Code identifying the taxing jurisdiction	C	AN	1/10	Conditional												
		<b>Notes:</b> Required if TXI01= ZZ																
TXI07	662	<b>Relationship Code</b> Description: Code indicating the relationship between entities	O	ID	1/1	Optional												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Add</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	A	Add												
<u>Code</u>	<u>Name</u>																	
A	Add																	
		<b>Notes:</b> The amount in TXI02 is included when summing the invoice total																

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

# MEA Measurements (Multiplier)

Pos: 059	Max: 40
Detail - Optional	
Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.  
 C0504 -- If MEA05 is present, then MEA04 is required  
 C0604 -- If MEA06 is present, then MEA04 is required  
 L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.  
 E0803 -- Only one of MEA08 or MEA03 may be present.

## Semantics:

- MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

## Comments:

- When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

## Notes:

*Required for metered account. If no multiplier exists, use value of 1 in MEA03*

*MEA~~MU~1*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
MEA02	738	<b>Measurement Qualifier</b> <b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies <b>Notes:</b> <i>Required when representing multiplier value</i>	O	ID	1/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MU</td> <td>Multiplier</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	MU	Multiplier				
<u>Code</u>	<u>Name</u>									
MU	Multiplier									
MEA03	739	<b>Measurement Value</b> <b>Description:</b> The value of the measurement <b>Notes:</b> If no multiplier exists, use value of 1 in MEA03	C	R	1/20	Mandatory				

# MEA Measurements (Reads)

Pos: 059	Max: 40
Detail - Optional	
Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.  
 C0504 -- If MEA05 is present, then MEA04 is required  
 C0604 -- If MEA06 is present, then MEA04 is required  
 L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.  
 E0803 -- Only one of MEA08 or MEA03 may be present.

## Semantics:

- MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

## Comments:

- When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

## Notes:

*Required for metered account  
 MEA~AA~~3111~KH~62666~65777*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	<b>Measurement Reference ID Code</b> <b>Description:</b> Code identifying the broad category to which a measurement applies <b>Notes:</b> <i>Required to designate actual or estimated read</i>	O	ID	2/2	Mandatory
		<b>Code</b>				
		<b>Name</b>				
		AA Meter reading-beginning actual/ending actual				
		EE Meter reading-beginning estimated/ending estimated				
		AE Meter reading-beginning actual/ending estimated				
		EA Meter reading-beginning estimated/ending actual				
MEA03	739	<b>Measurement Value</b> <b>Description:</b> The value of the measurement <b>Notes:</b> <i>Billable consumption with multiplier applied</i>	C	R	1/20	Mandatory
MEA04	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Mandatory
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Mandatory
		<b>Code</b>				
		<b>Name</b>				

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		KH K3				
		Kilowatt Hour Kilovolt Amperes Reactive Hours (KVARH)				
MEA05	740	<b>Range Minimum</b>	C	R	1/20	Mandatory
		<b>Description:</b> The value specifying the minimum of the measurement range				
		<b>Notes:</b> <i>Beginning read</i>				
MEA06	741	<b>Range Maximum</b>	C	R	1/20	Mandatory
		<b>Description:</b> The value specifying the maximum of the measurement range				
		<b>Notes:</b> <i>Ending read</i>				
MEA07	935	<b>Measurement Significance Code</b>	C	ID	2/2	Conditional
		<b>Code NAME</b>				
		41 Off Peak				
		42 On Peak				
		45 Summer On Peak				
		49 Winter On Peak				
		57 Summer				
		58 Winter				
		66 Shoulder				
		73 Summer Off Peak				
		75 Winter Off Peak				

For time of use (TOU) customers

# MEA Measurements (Demand)

Pos: 059	Max: 40
Detail - Optional	
Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.  
 C0504 -- If MEA05 is present, then MEA04 is required  
 C0604 -- If MEA06 is present, then MEA04 is required  
 L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.  
 E0803 -- Only one of MEA08 or MEA03 may be present.

## Semantics:

- MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

## Comments:

- When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

## Notes:

*Conditional. Required for metered accounts where demand is measured*

*MEA~AA~~125.44~K1~~50~41*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	<b>Measurement Reference ID Code</b> <b>Description:</b> Code identifying the broad category to which a measurement applies <b>Notes:</b> <i>Required to designate actual or estimated</i>	O	ID	2/2	Mandatory
		<b>Code</b>				
		<b>Name</b>				
		AN      Period Actual				
		EN      Period Estimated				
MEA03	739	<b>Measurement Value</b> <b>Description:</b> The value of the measurement <b>Notes:</b> <i>Billable demand with multiplier applied</i>	C	R	1/20	Mandatory
MEA04	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Mandatory
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Mandatory
		<b>Code</b>				
		<b>Name</b>				

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00

Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		K1 Kilowatt Demand				
MEA06	741	<b>Range Maximum</b> <b>Description:</b> The value specifying the maximum of the measurement range <b>Notes:</b> <i>Required when representing kilowatt demand read without multiplier applied</i>	C	R	1/20	Mandatory
MEA07	935	<b>Measurement Significance Code</b> <u>Code</u> <u>NAME</u> 41 Off Peak 42 On Peak 45 Summer On Peak 49 Winter On Peak 57 Summer 58 Winter 66 Shoulder 73 Summer Off Peak 75 Winter Off Peak  For time of use (TOU) customers	C	ID	2/2	Conditional

**PID****Product/Item Description (Designate corrected vs. original)**

Pos: 060	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

**Syntax:**

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is required

**Semantics:**

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

**Comments:**

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

**Notes:**

*Conditional. Required for cancel/rebill to differentiate between corrected and original details.*

*PID~F~~~~CORRECTED*

*PID~F~~~~ORIGINAL*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type <u>Code Name</u> F Free-form	M	ID	1/1	Mandatory
PID05	352	Description	C	AN	1/80	Mandatory

# REF Reference Identification (UNI)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

## Syntax:

R0203 -- At least one of REF02 or REF03 is required.

## Semantics:

- REF04 contains data relating to the value cited in REF02.

## Notes:

*Required*

*REF~LU~~ABC123*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>LU</td> <td>Location Number</td> </tr> </tbody> </table> <b>Notes:</b> <i>Represents Universal Node Identifier UNI</i>	<u>Code</u>	<u>Name</u>	LU	Location Number				
<u>Code</u>	<u>Name</u>									
LU	Location Number									
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Mandatory				
		<b>Notes:</b> UNI								

# REF Reference Identification (Meter number)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

## Syntax:

R0203 -- At least one of REF02 or REF03 is required.

## Semantics:

- REF04 contains data relating to the value cited in REF02.

## Notes:

*Required for metered account*

*REF~MG~~ABC123*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MG</td> <td>Meter Number</td> </tr> </tbody> </table> <b>Notes:</b> <i>Required for metered accounts</i>	<u>Code</u>	<u>Name</u>	MG	Meter Number				
<u>Code</u>	<u>Name</u>									
MG	Meter Number									
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content <b>Notes:</b> Meter number or UMI depending on service territory	C	AN	1/80	Mandatory				

# REF Reference Identification (Utility rate)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

### Syntax:

R0203 -- At least one of REF02 or REF03 is required.

### Semantics:

1. REF04 contains data relating to the value cited in REF02.

### Notes:

*Required*

*REF~NH~~E36*

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>NH</td> <td>Rate Card Number</td> </tr> </tbody> </table> <b>Notes:</b> <i>Utility rate class</i>	<u>Code</u>	<u>Name</u>	NH	Rate Card Number				
<u>Code</u>	<u>Name</u>									
NH	Rate Card Number									
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content <b>Notes:</b> Rate	C	AN	1/80	Mandatory				

# REF Reference Identification (Cycle Number)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

## Syntax:

R0203 -- At least one of REF02 or REF03 is required.

## Semantics:

- REF04 contains data relating to the value cited in REF02.

## Notes:

*Optional*  
REF~TZ~~15

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>TZ</td> <td>Total Cycle Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	TZ	Total Cycle Number				
<u>Code</u>	<u>Name</u>									
TZ	Total Cycle Number									
		<b>Notes:</b> <i>Meter cycle.</i>								
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Mandatory				
		<b>Notes:</b> Cycle number when the meter will be read								

# DTM

## Date/Time Reference (period start/stop dates)

Pos: 150	Max: 10
Detail - Optional	
Loop: IT1	Elements: 2

To specify pertinent dates and times

### Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

### Notes:

*Conditional. Used when period is different than the header, such as in cancel/rebill and requires sending prior period(s) detail*

DTM~150~20000615

DTM~151~20000714

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Mandatory						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>150</td> <td>Service Period Start</td> </tr> <tr> <td>151</td> <td>Service Period End</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	150	Service Period Start	151	Service Period End				
<u>Code</u>	<u>Name</u>											
150	Service Period Start											
151	Service Period End											
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Mandatory						

# SLN Subline Item Detail

<b>Pos: 200</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: SLN</b>	<b>Elements: 2</b>

To specify product subline detail item data

## Syntax:

1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

## Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

## Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

## Notes:

*Required if there are charges at a meter level*

*SLN~I~~A*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set <b>Notes:</b> <i>May be used as a loop counter for line item charges</i>	M	AN	1/20	Mandatory
SLN03	662	<b>Relationship Code</b> <b>Description:</b> Code indicating the relationship between entities	M	ID	1/1	Mandatory
		<b>Code</b> A		<b>Name</b> Add		

# SAC

## Service, Promotion, Allowance, or Charge Information (Charge type and amount)

Pos: 230                      Max: 25  
 Detail - Optional  
 Loop: SLN                  Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**Syntax:**

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

**Semantics:**

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

**Comments:**

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

**Notes:**

*Required if there are charges at a meter level*

*SAC~C~~EU~BAS001~1250~~~~~BASIC SVC CHG*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator <b>Description:</b> Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory
		<u>Code</u> <u>Name</u> C                    Charge				
SAC03	559	Agency Qualifier Code <b>Description:</b> Code identifying the agency assigning the code values	C	ID	2/2	Mandatory

Attachment No. 4 - Consolidated Billing Subcommittee

09/21/00				Invoice - 810			
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>		<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u>	<u>Name</u>				
		EU	Electric Utilities				
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b>		C	AN	1/10	Mandatory
		<b>Description:</b> Agency maintained code identifying the service, promotion, allowance, or charge					
		<b>Notes:</b> Required. Valid codes from UIG billing codes for SAC04 are below. Additional description is placed in SAC15					
		DIS001 Distribution Delivery					
		DSC000 Primary Voltage Discount					
		DSC013 Voltage Credit					
		MSC022 Competitive Transition Charge					
		MSC024 System Benefits					
		ADJ002 Adjustments/Corrections					
		MSC026 Interruptible Penalty Charge					
		SMD016 Meter Read					
		XXXXXX Meter Read Verify Charge					
		XXXXXX Meter Test Charge/Fee					
		XXXXXX Transmission Voltage Credit					
		XXXXXX TOU Remote Metering					
		XXXXXX No Access Charge					
		XXXXXX Capital Credit					
		XXXXXX Meter Ownership Charge					
		XXXXXX Remote Metering					
		XXXXXX City Sales Tax					
		XXXXXX State Sales Tax					
		XXXXXX Meter Services					
		XXXXXX Delivery Service					
		XXXXXX Required Ancillary					
		XXXXXX AISA Charge					
		XXXXXX Fixed Must Run					
		XXXXXX Power Factor					
		XXXXXX Transformer Discount					
		XXXXXX Primary Metering Discount					
		XXXXXX Lifeline Discount					
		XXXXXX Lifeline Variable Discount					
		XXXXXX Senior Lifeline Discount					
		XXXXXX Medical Discount					
		XXXXXX First 200 kW					
		XXXXXX Remaining kW					
		XXXXXX On Peak kW Charge					
		XXXXXX Shoulder kW Charge					
		XXXXXX Off Peak kW Charge					

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00

Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		XXXXXX On Peak kWh Charge				
		XXXXXX Shoulder kWh Charge				
		XXXXXX Off Peak kWh Charge				
		XXXXXX Cancelled Bill				
		XXXXXX Miscellaneous Billing Adjustment				
		XXXXXX Direct Access Fee				
		XXXXXX Cancel Direct Access				
		XXXXXX Interval Data Request Charge				
		XXXXXX Refund				
		XXXXXX Charge for Consumption Data				
		XXXXXX Charges for Damaged Equipment				
		XXXXXX Charges for Unauthorized Use of Service				
		XXXXXX After Hour Establishment Fee				
		XXXXXX Service Establishment Fee				
		XXXXXX Cancel Service Establishment Fee				
		XXXXXX Guarantee Home Refund				
		XXXXXX Late Payment Charge				
		XXXXXX Meter Test Charge				
		XXXXXX After Hour Reconnect Fee				
		XXXXXX Reconnect Fee				
		XXXXXX Special Reconnect Fee				
		XXXXXX Temporary Service Charge				
		XXXXXX Residential Rate 70 Refund				
		XXXXXX Charges Transferred				
		XXXXXX Xray				
<b>SAC05</b>	<b>610</b>	<b>Amount</b> <b>Description:</b> Monetary amount <b>Notes:</b> Dollar amounts may be positive or negative.	<b>O</b>	<b>N2</b>	<b>1/15</b>	<b>Mandatory</b>
<b>SAC15</b>	<b>352</b>	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	<b>C</b>	<b>AN</b>	<b>1/80</b>	<b>Optional</b>

**N1****Name (Customer)**

<b>Pos: 240</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 2</b>

To identify a party by type of organization, name, and code

**Syntax:**

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are required.

**Comments:**

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

**Notes:***Required**N1~MQ~JOHN DOE***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>Notes:</b> <i>Required.</i>	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MQ</td> <td>Metering Location</td> </tr> </tbody> </table> <b>Notes:</b> <i>Customer representing service address</i>	<u>Code</u>	<u>Name</u>	MQ	Metering Location				
<u>Code</u>	<u>Name</u>									
MQ	Metering Location									
N102	93	<b>Name</b> <b>Description:</b> Free-form name <b>Notes:</b> <i>Customer name</i>	C	AN	1/60	Mandatory				

09/21/00

Invoice - 810

**N3****Address Information (Service address)**

Pos: 260	Max: 2
Detail - Optional	
Loop: N1	Elements: 1

To specify the location of the named party

**Notes:***Required**N3~77 SUNSET STRIP***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	<b>Address Information</b>	M	AN	1/55	Mandatory

**Description:** Address information**Notes:** *Service address*

**N4****Geographic Location (Service city/state)**

<b>Pos: 270</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 2</b>

To specify the geographic place of the named party

**Syntax:**

C0605 -- If N406 is present, then N405 is required

**Comments:**

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

**Notes:**

*Optional.*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b> <b>Description:</b> Free-form text for city name <b>Notes:</b> <i>Required if address is within city/town</i>	O	AN	2/30	Conditional
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency <b>Notes:</b> <i>Always AZ</i>	O	ID	2/2	Mandatory
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Optional

**IT1****Baseline Item Data (Unmetered)**

<b>Pos: 010</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: IT1</b>	<b>Elements: 5</b>

To specify the basic and most frequently used line item data for the invoice and related transactions

**Syntax:**

P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.  
 P0607 -- If either IT106 or IT107 are present, then the others are required.  
 P0809 -- If either IT108 or IT109 are present, then the others are required.  
 P1011 -- If either IT110 or IT111 are present, then the others are required.  
 P1213 -- If either IT112 or IT113 are present, then the others are required.  
 P1415 -- If either IT114 or IT115 are present, then the others are required.  
 P1617 -- If either IT116 or IT117 are present, then the others are required.  
 P1819 -- If either IT118 or IT119 are present, then the others are required.  
 P2021 -- If either IT120 or IT121 are present, then the others are required.  
 P2223 -- If either IT122 or IT123 are present, then the others are required.  
 P2425 -- If either IT124 or IT125 are present, then the others are required.

**Semantics:**

- IT101 is the purchase order line item identification.

**Comments:**

- Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:***Required**IT1~2~~~~SV~EL~C3~UNMET***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT101	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set <b>Notes:</b> <i>Line item counter within IT1 loop</i>	O	AN	1/20	Recommended				
IT106	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SV</td> <td>Service Rendered</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	SV	Service Rendered	C	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>									
SV	Service Rendered									
IT107	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service <b>Notes:</b> <i>Commodity</i> <i>EL Electric Service</i>	C	AN	1/48	Mandatory				

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT108	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>C3</td> <td>Classification</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	C3	Classification				
<u>Code</u>	<u>Name</u>									
C3	Classification									
IT109	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service <b>Notes:</b> <i>Line item billing levels</i> <i>UNMET for charges at unmetered accounts</i>	C	AN	1/48	Mandatory				

**TXI****Tax Information (Billing level taxes)**

Pos: 040	Max: 10
Detail - Optional	
Loop: IT1	Elements: 6

To specify tax information

**Syntax:**

- R020306 -- At least one of TXI02, TXI03 or TXI06 is required.  
P0405 -- If either TXI04 or TXI05 are present, then the others are required.  
C0803 -- If TXI08 is present, then TXI03 is required

**Semantics:**

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

**Notes:**

*Required if taxes exist and are billed at IT1 levels(Unmetered)*

*TXI~ZZ~4.55~~CD~ABC~~A~~~5*

*TXI~LS~8.10*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
TXI01	963	<b>Tax Type Code</b> Description: Code specifying the type of tax	M	ID	2/2	Mandatory												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CP</td> <td>County/Parish Sales Tax</td> </tr> <tr> <td>CS</td> <td>City Sales Tax</td> </tr> <tr> <td>LS</td> <td>State and Local Sales Tax</td> </tr> <tr> <td>ST</td> <td>State Sales Tax</td> </tr> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CP	County/Parish Sales Tax	CS	City Sales Tax	LS	State and Local Sales Tax	ST	State Sales Tax	ZZ	Mutually Defined				
<u>Code</u>	<u>Name</u>																	
CP	County/Parish Sales Tax																	
CS	City Sales Tax																	
LS	State and Local Sales Tax																	
ST	State Sales Tax																	
ZZ	Mutually Defined																	
TXI02	782	<b>Monetary Amount</b> Description: Monetary amount	C	R	1/18	Mandatory												
TXI04	955	<b>Tax Jurisdiction Code Qualifier</b> Description: Code identifying the source of the data used in tax jurisdiction code	C	ID	2/2	Conditional												
		<p><b>Notes:</b> <i>Required if TXI01 = ZZ</i></p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CD</td> <td>Customer defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CD	Customer defined												
<u>Code</u>	<u>Name</u>																	
CD	Customer defined																	
TXI05	956	<b>Tax Jurisdiction Code</b> Description: Code identifying the taxing jurisdiction	C	AN	1/10	Conditional												
		<p><b>Notes:</b> <i>Required if TXI01= ZZ</i></p>																
TXI07	662	<b>Relationship Code</b> Description: Code indicating the relationship between entities	O	ID	1/1	Optional												

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		A          Add				

**Notes:** *The amount in TX102 is included when summing the invoice total*

# MEA Measurements (Count of unmetered devices)

Pos: 059	Max: 40
Detail - Optional	
Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.  
 C0504 -- If MEA05 is present, then MEA04 is required  
 C0604 -- If MEA06 is present, then MEA04 is required  
 L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.  
 E0803 -- Only one of MEA08 or MEA03 may be present.

## Semantics:

- MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

## Comments:

- When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

## Notes:

*Required for count of umetered devices*

*MEA~~VOL~1~EA*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA02	738	<b>Measurement Qualifier</b> <b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies VOL      Volume	O	ID	1/3	Mandatory
MEA03	739	<b>Measurement Value</b> <b>Description:</b> The value of the measurement	C	R	1/20	Mandatory
MEA04	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Mandatory
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Mandatory

<u>Code</u>	<u>Name</u>
EA	Each

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

**PID****Product/Item Description (Designate corrected vs. original)**

Pos: 060	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

**Syntax:**

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is required

**Semantics:**

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

**Comments:**

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

**Notes:**

*Conditional. Required for cancel/rebill to differentiate between corrected and original details.*

*PID~F~~~~CORRECTED*

*PID~F~~~~ORIGINAL*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Mandatory
		<u>Code</u> <u>Name</u>				
		F Free-form				
PID05	352	Description	C	AN	1/80	Mandatory

# REF Reference Identification (Utility rate)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

### Syntax:

R0203 -- At least one of REF02 or REF03 is required.

### Semantics:

- REF04 contains data relating to the value cited in REF02.

### Notes:

*Required*  
REF~NH~~E36

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>NH</td> <td>Rate Card Number</td> </tr> </tbody> </table> <b>Notes:</b> <i>Utility rate class</i>	<u>Code</u>	<u>Name</u>	NH	Rate Card Number				
<u>Code</u>	<u>Name</u>									
NH	Rate Card Number									
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Mandatory				
		<b>Notes:</b> Rate								

# REF Reference Identification (Cycle Number)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

## Syntax:

R0203 -- At least one of REF02 or REF03 is required.

## Semantics:

- REF04 contains data relating to the value cited in REF02.

## Notes:

*Optional*  
REF~TZ~~15

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>TZ</td> <td>Total Cycle Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	TZ	Total Cycle Number				
<u>Code</u>	<u>Name</u>									
TZ	Total Cycle Number									
		<b>Notes:</b> <i>Meter cycle.</i>								
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Mandatory				
		<b>Notes:</b> Cycle number when the meter will be read								

# DTM

## Date/Time Reference (period start/stop dates)

Pos: 150	Max: 10
Detail - Optional	
Loop: IT1	Elements: 2

To specify pertinent dates and times

### Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

### Notes:

*Conditional. Used when period is different than the header, such as cancel/rebill and requires sending prior period(s) detail*

DTM~150~20000615

DTM~151~20000714

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Mandatory						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>150</td> <td>Service Period Start</td> </tr> <tr> <td>151</td> <td>Service Period End</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	150	Service Period Start	151	Service Period End				
<u>Code</u>	<u>Name</u>											
150	Service Period Start											
151	Service Period End											
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Mandatory						

# SLN Subline Item Detail

Pos: 200	Max: 1
Detail - Optional	
Loop: SLN	Elements: 2

To specify product subline detail item data

## Syntax:

1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

## Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

## Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

## Notes:

*Required if there are charges at a detailed level*

*SLN~I~~A*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	Assigned Identification	M	AN	1/20	Mandatory

**Description:** Alphanumeric characters assigned for differentiation within a transaction set

**Notes:** *May be used as a loop counter for line item charges*

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN03	662	Relationship Code	M	ID	1/1	Mandatory

**Description:** Code indicating the relationship between entities

<u>Code</u>	<u>Name</u>
A	Add

**SAC**

**Service, Promotion, Allowance, or Charge Information (Charge type and amount)**

Pos: 230	Max: 25
Detail - Optional	
Loop: SLN	Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**Syntax:**

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

**Semantics:**

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

**Comments:**

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

**Notes:**

*Required if there are charges at a detailed level*

*SAC~C~~EU~DIS001~1250~~~~~DISTRIBUTION DELIVERY*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Mandatory

**Description:** Code which indicates an allowance or charge for the service

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00

Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		specified				
		<u>Code</u> C				
		<u>Name</u> Charge				
SAC03	559	<b>Agency Qualifier Code</b> <b>Description:</b> Code identifying the agency assigning the code values	C	ID	2/2	Mandatory
		<u>Code</u> EU				
		<u>Name</u> Electric Utilities				
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> <b>Description:</b> Agency maintained code identifying the service, promotion, allowance, or charge	C	AN	1/10	Mandatory
		<p><b>Notes:</b> Required. Valid codes from UIG billing codes for SAC04 are below. Additional description is placed in SAC15</p> <p>DIS001 Distribution delivery</p> <p>ADJ002 Adjustments/corrections</p> <p>XXXXXX Flat Rate Charge Based on Service</p> <p>FFR001 Non Metered Service</p> <p>XXXXXX City Sales Tax</p> <p>XXXXXX State Sales Tax</p> <p>XXXXXX Delivery Service</p> <p>XXXXXX Required Ancillary</p> <p>XXXXXX AISA Charge</p> <p>XXXXXX Fixed Must Run</p> <p>BAS001 Basic Service Charge</p> <p>XXXXXX Cancelled Bill</p> <p>XXXXXX Miscellaneous Billing Adjustment</p> <p>XXXXXX Contract Adjustment</p> <p>XXXXXX Direct Access Fee</p> <p>XXXXXX Cancel Direct Access</p> <p>XXXXXX Refund</p> <p>XXXXXX Charge for Consumption Data</p> <p>XXXXXX Charges for Damaged Equipment</p> <p>XXXXXX Service Establishment Fee</p> <p>XXXXXX Cancel Service Establishment Fee</p> <p>XXXXXX Late Payment Charge</p> <p>XXXXXX Charges Transferred</p> <p>XXXXXX Xray</p>				
SAC05	610	<b>Amount</b> <b>Description:</b> Monetary amount	O	N2	1/15	Mandatory
		<b>Notes:</b> Dollar amounts may be positive or negative.				
SAC15	352	<b>Description</b>	C	AN	1/80	Optional

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>Description:</b> A free-form description to clarify the related data elements and their content				Invoice - 810

**N1****Name (Customer)**

<b>Pos: 240</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 2</b>

To identify a party by type of organization, name, and code

**Syntax:**

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are required.

**Comments:**

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

**Notes:***Required**N1~MQ~JOHN DOE***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>Notes:</b> <i>Required.</i>	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MQ</td> <td>Metering Location</td> </tr> </tbody> </table> <b>Notes:</b> <i>Customer representing service address</i>	<u>Code</u>	<u>Name</u>	MQ	Metering Location				
<u>Code</u>	<u>Name</u>									
MQ	Metering Location									
N102	93	<b>Name</b> <b>Description:</b> Free-form name <b>Notes:</b> <i>Customer name</i>	C	AN	1/60	Mandatory				

**N3**

**Address Information (Service address)**

Pos: 260	Max: 2
Detail - Optional	
Loop: N1	Elements: 1

To specify the location of the named party

**Notes:**  
*Required*  
 N3~77 SUNSET STRIP

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Mandatory
		<b>Description:</b> Address information				
		<b>Notes:</b> <i>Service address</i>				

**N4****Geographic Location (Service city/state)**

<b>Pos: 270</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 2</b>

To specify the geographic place of the named party

**Syntax:**

C0605 -- If N406 is present, then N405 is required

**Comments:**

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

**Notes:**

*Optional.*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b> <b>Description:</b> Free-form text for city name <b>Notes:</b> <i>Required if address is within city/town</i>	O	AN	2/30	Conditional
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency <b>Notes:</b> <i>Always AZ</i>	O	ID	2/2	Mandatory

**IT1****Baseline Item Data (Account)**

<b>Pos: 010</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: IT1</b>	<b>Elements: 5</b>

To specify the basic and most frequently used line item data for the invoice and related transactions

**Syntax:**

P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.  
P0607 -- If either IT106 or IT107 are present, then the others are required.  
P0809 -- If either IT108 or IT109 are present, then the others are required.  
P1011 -- If either IT110 or IT111 are present, then the others are required.  
P1213 -- If either IT112 or IT113 are present, then the others are required.  
P1415 -- If either IT114 or IT115 are present, then the others are required.  
P1617 -- If either IT116 or IT117 are present, then the others are required.  
P1819 -- If either IT118 or IT119 are present, then the others are required.  
P2021 -- If either IT120 or IT121 are present, then the others are required.  
P2223 -- If either IT122 or IT123 are present, then the others are required.  
P2425 -- If either IT124 or IT125 are present, then the others are required.

**Semantics:**

- IT101 is the purchase order line item identification.

**Comments:**

- Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:***Required**IT1~2~~~~~SV~EL~C3~ACCOUNT***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT101	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set <b>Notes:</b> <i>Line item counter within IT1 loop</i>	O	AN	1/20	Recommended				
IT106	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>SV</td> <td>Service Rendered</td> </tr> </table>	<u>Code</u>	<u>Name</u>	SV	Service Rendered	C	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>									
SV	Service Rendered									
IT107	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service <b>Notes:</b> <i>Commodity</i> <i>EL Electric Service</i>	C	AN	1/48	Mandatory				

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT108	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>C3</td> <td>Classification</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	C3	Classification				
<u>Code</u>	<u>Name</u>									
C3	Classification									
IT109	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service <b>Notes:</b> <i>Line item billing levels</i> <i>ACCOUNT for account level charges</i>	C	AN	1/48	Mandatory				

**TXI****Tax Information (Billing level taxes)**

Pos: 040	Max: 10
Detail - Optional	
Loop: IT1	Elements: 6

To specify tax information

**Syntax:**

- R020306 -- At least one of TXI02, TXI03 or TXI06 is required.  
P0405 -- If either TXI04 or TXI05 are present, then the others are required.  
C0803 -- If TXI08 is present, then TXI03 is required

**Semantics:**

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

**Notes:***Required if taxes exist and are billed at IT1 levels(Account)*

TXI~ZZ~4.55~~CD~ABC~~A~~~5

TXI~LS~8.10

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
TXI01	963	<b>Tax Type Code</b> Description: Code specifying the type of tax	M	ID	2/2	Mandatory												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CP</td> <td>County/Parish Sales Tax</td> </tr> <tr> <td>CS</td> <td>City Sales Tax</td> </tr> <tr> <td>LS</td> <td>State and Local Sales Tax</td> </tr> <tr> <td>ST</td> <td>State Sales Tax</td> </tr> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CP	County/Parish Sales Tax	CS	City Sales Tax	LS	State and Local Sales Tax	ST	State Sales Tax	ZZ	Mutually Defined				
<u>Code</u>	<u>Name</u>																	
CP	County/Parish Sales Tax																	
CS	City Sales Tax																	
LS	State and Local Sales Tax																	
ST	State Sales Tax																	
ZZ	Mutually Defined																	
TXI02	782	<b>Monetary Amount</b> Description: Monetary amount	C	R	1/18	Mandatory												
TXI04	955	<b>Tax Jurisdiction Code Qualifier</b> Description: Code identifying the source of the data used in tax jurisdiction code	C	ID	2/2	Conditional												
		<b>Notes:</b> Required if TXI01 = ZZ																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CD</td> <td>Customer defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CD	Customer defined												
<u>Code</u>	<u>Name</u>																	
CD	Customer defined																	
TXI05	956	<b>Tax Jurisdiction Code</b> Description: Code identifying the taxing jurisdiction	C	AN	1/10	Conditional												
		<b>Notes:</b> Required if TXI01 = ZZ																
TXI07	662	<b>Relationship Code</b> Description: Code indicating the relationship between entities	O	ID	1/1	Optional												

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00 Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		A          Add				

**Notes:** *The amount in TX102 is included when summing the invoice total*

**PID****Product/Item Description (Designate corrected vs. original)**

Pos: 060	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

**Syntax:**

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is required

**Semantics:**

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

**Comments:**

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

**Notes:**

*Conditional. Required for cancel/rebill to differentiate between corrected and original details.*

*PID~F~~~~CORRECTED*

*PID~F~~~~ORIGINAL*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type <u>Code Name</u> F Free-form	M	ID	1/1	Mandatory
PID05	352	Description	C	AN	1/80	Mandatory

# REF Reference Identification (Days in period)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

## Syntax:

R0203 -- At least one of REF02 or REF03 is required.

## Semantics:

1. REF04 contains data relating to the value cited in REF02.

## Notes:

*Required*

*REF~ZZ~~31*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	ZZ	Mutually Defined				
<u>Code</u>	<u>Name</u>									
ZZ	Mutually Defined									
		<b>Notes:</b> <i>Number of days in the usage period</i>								
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Mandatory				
		<b>Notes:</b> Number of days in period								

# REF Reference Identification (Cycle Number)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

### Syntax:

R0203 -- At least one of REF02 or REF03 is required.

### Semantics:

- REF04 contains data relating to the value cited in REF02.

### Notes:

*Optional*  
REF~TZ~~15

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>TZ</td> <td>Total Cycle Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	TZ	Total Cycle Number				
<u>Code</u>	<u>Name</u>									
TZ	Total Cycle Number									
		<b>Notes:</b> <i>Meter cycle.</i>								
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Mandatory				
		<b>Notes:</b> Cycle number when the meter will be read								

# DTM

## Date/Time Reference (period start/stop dates)

Pos: 150	Max: 10
Detail - Optional	
Loop: IT1	Elements: 2

To specify pertinent dates and times

### Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

### Notes:

*Conditional. Used when period is different than the header, such as cancel/rebill*

*Generally, the DTMs are paired but it is acceptable to use one to represent the period.*

DTM~150~20000615

DTM~151~20000714

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	<b>Date/Time Qualifier</b>	M	ID	3/3	Mandatory
		<b>Description:</b> Code specifying type of date or time, or both date and time				
		<u>Code</u>		<u>Name</u>		
		150		Service Period Start		
		151		Service Period End		
DTM02	373	<b>Date</b>	C	DT	8/8	Mandatory
		<b>Description:</b> Date expressed as CCYYMMDD				

# SLN Subline Item Detail

Pos: 200	Max: 1
Detail - Optional	
Loop: SLN	Elements: 2

To specify product subline detail item data

## Syntax:

1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

## Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

## Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

## Notes:

*Required if there are charges at a detailed level*

*SLN~I~~A*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	Assigned Identification	M	AN	1/20	Mandatory
		<b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set				
		<b>Notes:</b> <i>May be used as a loop counter for line item charges</i>				

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00

Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN03	662	<b>Relationship Code</b>	M	ID	1/1	Mandatory
<b>Description:</b> Code indicating the relationship between entities						

<u>Code</u>	<u>Name</u>
A	Add

# SAC Service, Promotion, Allowance, or Charge Information (Account level charges)

Pos: 230	Max: 1
Detail - Optional	
Loop: SAC	Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**Syntax:**

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

**Semantics:**

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

**Comments:**

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

**Notes:**

*Required if there are charges at account level*

*SAC~C~~EU~BAS001~1250~~~~~BASIC SVC CHG*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00							Invoice - 810
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
SAC01	248	<b>Allowance or Charge Indicator</b> <b>Description:</b> Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory	
		<u>Code</u> <u>Name</u> C              Charge					
SAC03	559	<b>Agency Qualifier Code</b> <b>Description:</b> Code identifying the agency assigning the code values	C	ID	2/2	Mandatory	
		<u>Code</u> <u>Name</u> EU            Electric Utilities					
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> <b>Description:</b> Agency maintained code identifying the service, promotion, allowance, or charge	C	AN	1/10	Mandatory	
		<b>Notes:</b> Required. Valid codes from UIG billing codes for SAC04 are below. Additional description is placed in SAC15					
		BAS001 Basic Service Charge					
		DSC009 Energy Support Program Discount					
		HOC001 Service Establishment Charge					
		RCS001 Reconnect Charge					
		VCR001 Charitable Contribution					
		ODL002 Security Lighting Charge					
		ADJ006 Franchise Fees					
		MSC001 Miscellaneous Charges					
		XXXXXX Security Lighting Credit					
		XXXXXX Meter Tampering Charge/Fee					
		XXXXXX Meter Test Charge/Fee					
		XXXXXX Capital Credit					
		MSC026 Interruptible Penalty					
		XXXXXX Meter Read Verify Charge					
		XXXXXX RUCO Regulatory Assessment					
		XXXXXX No Access Charge					
		XXXXXX Meter Ownership Charge					
		SMD016 Meter Read Charge					
		MSC024 Systems Benefits Charge					
		DIS001 Distribution Deliver Charge					
		XXXXXX ACC Regulatory Assessment					
		XXXXXX Totalizing Charge					
		CRE001 Miscellaneous Credit					
		FFR001 Non Metered Service					
		XXXXXX Xray					
SAC05	610	<b>Amount</b> <b>Description:</b> Monetary amount	O	N2	1/15	Mandatory	

**Attachment No. 4 - Consolidated Billing Subcommittee**

09/21/00

Invoice - 810

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>Notes:</b> <i>Dollar amounts may be positive or negative.</i>				
SAC15	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Optional

# TDS Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

To specify the total invoice discounts and amounts

### Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

### Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

### Notes:

*Required*

*TDS~53275*

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount	M	N2	1/15	Mandatory

**Description:** Monetary amount

**Notes:** *Total dollar amount of non-billing party's invoice*

# CTT Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

To transmit a hash total for a specific element in the transaction set

### Syntax:

1. CTT03 P0304 -- If either CTT03 or CTT04 are present, then the others are required.
2. CTT05 P0506 -- If either CTT05 or CTT06 are present, then the others are required.

### Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

### Notes:

*Recommended*

*CTT~3*

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Mandatory

**Description:** Total number of line items in the transaction set

**Notes:** *Number of IT1 segments in detail section*

**SE****Transaction Set Trailer**

<b>Pos: 080</b>	<b>Max: 1</b>
<b>Summary - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Comments:**

- SE is the last segment of each transaction set.

**Notes:***Required**SE~27~00052***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Mandatory
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Mandatory